

TRANSMITTAL FORM

Application Number	10/587,793
Filing Date	July 31, 2006
First Named Inventor	Uwe Kark
Title	Device and Method for Shaping a Foil Strip
Group Art Unit	
Examiner Name	
Attorney Docket Number	GMH/441/PC/US
Date	April 5, 2007

ENCLOSURES				
	Response to Office Action Preliminary Amendment			
	Information Disclosure Statement			
\boxtimes	Other: English Translation of the International Preliminary Report on Patentability			
\boxtimes	It is hereby petitioned that any required extension of time be granted for filing the amendment. An extension of month(s) having a fee of \$ appears required.			
	A check in the amount of \$ is attached. Please credit any overpayment to Deposit Account 16-2563 of Alix, Yale & Ristas, LLP.			
The Commissioner is hereby requested and authorized to charge Deposit Account 16-2563 of Alix, Yale & Ristas, LLP for any fee, not enclosed herewith, due for any reason in connection with the amendment or this or any other document accompanying the amendment, including (a) any filing fees under 37 CFR 1.16 for the presentation of extra claims and (b) any patent application processing fees under 37 CFR 1.17. A duplicate copy of this sheet is attached.				
SIGNATURE OF APPLICANT, ATTORNEY OR AGENT				
Firm <i>or</i> Individua Signatur Date				
CERTIFICATE OF MAILING				
I hereby certify that this correspondence is being deposited on the date below with the United States Postal Service as first class mail in an envelope addressed to "Commissioner for Patents, United States Patent and Trademark Office, P.O. Box 1450, Alexandria, Virginia 22313-1450."				
Typed o	or Printed Name Guy D. Yale Reg. No. 29,125 Date: April 5, 2007			

TRANSLATION PATENT COOPERATION TREATY

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference				
KARG034PEP	FOR FURTHER	ACTION	See Form PCT/IPEA/416	
International application No.	International filing	date (day/month/year)	Priority date (day/month/year)	
PCT/EP2004/0041	.45 19.04.20	04	30.01.2004	
International Patent Classification B29C43/46 B29C3		d IPC		
Applicant KARK AG				
	ational preliminary examination resmitted to the applicant according		International Preliminary Examining Authority	
2. This REPORT consists of	fatotal of 5	sheets. including	ng this cover sheet.	
3. This report is also accom	panied by ANNEXES, comprising	; :		
a. (sent to the a	oplicant and to the International B	tureau) a total of	sheets, as follows:	
	ontaining rectifications authorized		amended and are the basis for this report and/or ule 70.16 and Section 607 of the Administrative	
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.				
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o (sent to the th	nternational Bureau only) a total of	t (indicate type and number	er of electronic carrier(s))	
	in computer readable form only, he Administrative Instructions).	as indicated in the Supple	_ , containing a sequence listing and/or tables emental Box Relating to Sequence Listing (see	
4. This report contains indic	ations relating to the following ite	ms:		
Box No. I	Basis of the report			
Box No. II	Priority			
	•			
Box No. III		n regard to novelty, inven	live step and industrial applicability	
Box No. IV	Lack of unity of invention	25.2		
Box No. V	citations and explanations support		ty, inventive step or industrial applicability:	
Box No. VI	Certain documents cited			
Box No. VII	Certain defects in the international	l application		
Box No. VIII	Certain observations on the intern			
Date of submission of the demand		Date of completion of th	is report	
oute of submussion of the defibility		Date of completion of th	is report	
Name and mailing address of the IPEA/EP		Authorized officer		
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acsimile No.		Telephone No.		

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/EP2004/004145

Во	x No. I	Basis of th	e report		
1.		regard to the langu	age, this report is based on the interna	tional application in the language in	which it was filed, unless otherwise
		•	d on translations from the original lang age of a translation furnished for the pu		
		international search (Rule 12.3 and 23.1(b))			
		publication o	f the international application (Rule 12	2.4)	
		international	preliminary examination (Rule 55.2 as	nd/or 55.3)	
2.	With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):				
	R		plication as originally filed/furnished		1
		the description:			
		pages <u>1-17</u>	7		as originally filed/furnished
				-	
	5 21	pages*	***************************************	received by this Authority on	
	M	the claims:			
		nos. <u>1-17</u>	THE STATE OF THE S		as originally filed/furnished
		nos.*		as amended (togethe	er with any statement) under Article 19
		nos.*		received by this Authority on	
		nos.*		received by this Authority on	
	\boxtimes	the drawings:			
		sheets <u>1/6-6</u>	/6		as originally filed/furnished
		sheets*		received by this Authority on	
		sheets*		received by this Authority on	
		a sequence listing a	nd/or any related table(s) - see Supple	mental Box Relating to Sequence L	isting.
3.		The amendments ha	we resulted in the cancellation of:		
		the description	n. pages		
	i	the claims, no	S		
		the drawings.	sheets/figs		
	.	the sequence l	listing (specify):		
		any table(s) re	elated to sequence listing (specify):		
4.			n established as if (some of) the amer sidered to go beyond the disclosure as		listed below had not been made, since tal Box (Rule 70.2(c)).
	ļ	the description	n. pages		
	ļ	the claims, no	S		
	Į	the drawings.	sheets/figs		
	[the sequence l	isting (specify):		
	[any table(s) re	lated to sequence listing (specify):		
*	If iten	1 4 applies, some or	all of those sheets may be marked "su	perseded."	

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/EP2004/004145

Box No. II Priority
1. This report has been established as if no priority had been claimed due to the failure to furnish within the prescribed time limit the requested:
copy of the earlier application whose priority has been claimed (Rule 66.7(a)).
translation of the earlier application whose priority has been claimed (Rule 66.7(b)).
2. This report has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rule 64.1). Thus for the purposes of this report, the international filing date indicated above is considered to be the relevant date.
3. Additional observations, if necessary:

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/EP2004/004145

Box			rticle 35(2) with regard to novelty, inventive step or industrial applicability; pporting such statement	
1.	Statement			
	Novelty (N)	Claims	1-17	YES
		Claims		NO
	Inventive step (IS)	Claims	1-17	YES
		Claims		NO
	Industrial applicability (IA)	Claims	1-17	YES
		Claims		NO
I				

- 2. Citations and explanations (Rule 70.7)
 - 1. US-A-5 945 042 (document D1), which is considered to be the closest prior art, discloses (see Figure 3) a device for continuously forming a strip (52) which is formable at a high temperature on the surface of a drum (i.e. the outer cylinder of embossing roll 55) that is heated and cooled in particular regions (regions 57 and 58) (see column 12, lines 47 to 56). The strip 52 moves as the embossing roll 55 rotates (see column 3, lines 6 to 7), with forming taking place on the heated region of the embossing roll and cooling taking place on the cold region of the embossing roll (see column 13, lines 8 to 15).

D1 does not explicitly state whether regions 57 and 58 rotate with the roll or whether they are stationary. A person skilled in the art therefore has two options, namely a design in which the cooling and heating regions are stationary and one in which they are movable.

If the roll 55 were made of a single block with internal passages 56 (i.e. if the cooling and heating regions were movable), the following points would have to be considered:

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- A complex, movable, large-surface sealing system would be required between the roll and the manifolds 57 and 58.
- D1 states (column 12, lines 51 to 56) that the heating medium for the upper region is oil and the coolant for the lower region is water. This means that two immiscible liquids are introduced into the passages 56 in alternation, and that after a certain period there will be an oil-water mixture.
- It would be difficult if not impossible to effect the required rapid cooling (column 9, lines 60 to 62; column 13, lines 13 to 15) of the sheets 52 and 60 immediately after lamination because the part of the roll at the end of the hot upper region (when seen looking in the direction of rotation) would not be able to cool to the low temperature of the lower region quickly enough on account of the high heat capacity.

However, even if the "stationary" version would unquestionably have advantages, such an interpretation cannot be regarded as free of doubts, unambiguous and inevitable. The subject matter of claim 1 can therefore be considered novel and inventive (PCT Article 33).

Claims 2 to 17 are dependent on claim 1 and therefore also meet the PCT requirements in respect of novelty and inventive step.